# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 03/31/2021 09:52 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 12/15/2020 11:39 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

| | | | |
|---|---|---|---|
| Bead Product: | CST Setup Beads | Part #: | 910859 |
| Lot ID: | 91417 | Expiration Date: | 03/31/2021 (Expired) |
| Bead Lot Information: | Available | | |

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 124439 | -1 | 2.22 | 124459 | 2.24 |
| Blue | F | SSC | 125000 | 123831 | -1 | 3.36 | 124650 | 3.33 |
| Blue | E | FITC | 14203 | 13665 | -4 | 2.69 | 296 | 15.46 |
| Blue | D | PE | 25703 | 25296 | -2 | 2.29 | 548 | 10.64 |
| Blue | B | PerCP-Cy5-5 | 42104 | 40738 | -4 | 3.12 | 911 | 14.41 |
| Blue | A | PE-Cy7 | 34646 | 34110 | -2 | 4.48 | 483 | 29.31 |
| Red | C | APC | 49824 | 49127 | -2 | 2.92 | 1500 | 11.43 |
| Red | A | APC-Cy7 | 39773 | 38616 | -3 | 2.92 | 718 | 11.82 |
| Violet | B | V450 | 7447 | 7079 | -5 | 3.87 | 399 | 12.59 |
| Violet | A | V500 | 31193 | 29980 | -4 | 3.71 | 682 | 10.03 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 21749 | 2.59 | 549 | -7 | N/A | N/A | Pass |
| Blue | F | SSC | 54943 | 2.84 | 515 | 3 | N/A | N/A | Pass |
| Blue | E | FITC | 54 | 53.22 | 482 | -4 | 0.0387 | 78 | Pass |
| Blue | D | PE | 108 | 38.51 | 485 | 0 | 0.3686 | 262 | Pass |
| Blue | B | PerCP-Cy5-5 | 174 | 35.87 | 575 | -2 | 0.0199 | 71 | Pass |
| Blue | A | PE-Cy7 | 111 | 63.81 | 620 | 0 | 0.0222 | 1 | Pass |
| Red | C | APC | 349 | 24.29 | 570 | 3 | 0.0280 | 127 | Pass |
| Red | A | APC-Cy7 | 199 | 24.86 | 546 | 2 | 0.0062 | 740 | Pass |
| Violet | B | V450 | 88 | 39.43 | 457 | 8 | 0.0428 | 1171 | Pass |
| Violet | A | V500 | 120 | 28.96 | 475 | 8 | 0.0261 | 731 | Pass |

## Specifications

| | |
|---|---|
| PMTV Delta from baseline: | 50 (BD) |
| Violet Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Blue Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Red Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |

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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.97 - 71.95 | N/A | N/A | -31.77 | -31.44 | 0.94 |
| Blue | 20.35 | 16.27 - 24.41 | 1.28 | 0.99 - 1.49 | 0.00 | 0.00 | 1.41 |
| Red | 19.55 | 15.99 - 23.99 | N/A | N/A | 29.73 | 30.09 | 1.19 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.74

## Threshold

Threshold (FSC): 10939

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.60
Spec.: 3.80 - 4.00

Comments